

L 6353-66

ACC NR: AP5020362

molecules of the beam interact with the travelling waves which are established in the resonator. When the value of the parameter α given by the expression

$$\alpha_1 = \begin{cases} 4\mu/\chi\eta + 0,77 & \text{if } \alpha_1 > 0 \\ 4\mu/\chi\eta - 0,77 & \text{if } \alpha_1 < 0 \end{cases}$$

is approximately equal to -1 there is a resonant exchange of energy between the beam molecules and the backwave while a weak (nonresonant) energy exchange occurs between the molecular beam and the forward wave. In the region where α is approximately equal to 1, the situation is reversed: the molecular system undergoes intense transitions under the action of the direct wave field. The exact conditions under which the frequency of oscillations undergoes a discontinuity can be established from stability considerations. The analysis of stability is very cumbersome and is not presented in the article. However, its results are used to consider the case of sinusoidal distribution of the resonator field. Orig. art. has: 24 equations and 3 figures.

SUB CODE: EM,GP/ SUBM DATE: 18Sep64/ ORIG REF: 007/ OTH REF: 001

Card 2/2

Raif

L 42285-66 FBD/EWT(1)/EEC(k)-2/T/EWT(k) IJP(c) WG

ACC NR. AP5022792

SOURCE CODE: UR/0141/65/008/004/0688/0698

AUTHOR: Tsaregradskiy, V. B.

ORG: Gor'kiy State University (Gor'kovskiy gosudarstvennyy universitet)

TITLE: Interaction of a molecular beam with the electromagnetic field of a resonator. III.
Stability of oscillations of a maser with an inhomogeneous field

SOURCE: IVUZ. Radiofizika, v. 8, no. 4, 1965, 688-698

TOPIC TAGS: maser, resonator, ~~oscillation~~, molecular beam, ELECTROMAGNETIC FIELD,
RESONATOR OSCILLATION

ABSTRACT: The stability of a maser with an arbitrary inhomogeneous field is examined in this article. A characteristic equation is derived on the basis of the field expansion of molecular beam polarization and its solution for any mode of oscillations in the resonator is found. The stability of two auto-oscillatory cycles in the maser with a sinusoidal distribution of the field along the axis of the beam is investigated as an example. A numerical calculation of the roots of the characteristic equation made it possible to establish the presence of a hysteresis transition between the auto-oscillatory cycles in the generator. Orig. art. has: 3 figures and 26 formulas.

SUB CODE: 20 SUBM DATE: 14Dec64/ ORIG REF: 001

Cord 1/1

UDC: 621.378.33

L 6303-66 EEC(k)-2/EWA(h)/EWA(k)/ENP(k)/ENT(1)/FBD/T/EWA(m)-2 SCTB/IJP(c) WG

ACC NR: AP5026707

SOURCE CODE: UR/0141/65/008/005/0920/0923

AUTHOR: Tsaregradskiy, V. B.⁴⁴

33

ORG: Gorkiy State University⁴⁴ (Gor'kovskiy gosudarstvennyy universitet)

B

TITLE: Maser^{25, 44} with a sinusoidal field distribution. Part 4. Case of arbitrary magnitude of the field

SOURCE: IVUZ. Radiofizika, v. 8, no. 5, 1965, 920-923

TOPIC TAGS: maser theory, resonator

ABSTRACT: The problem of a maser with a sinusoidal distribution of the resonator field, which is inhomogeneous and has an arbitrary amplitude along the axis of motion of the molecules, is considered for large values of the excitation parameter χn . The solution is based on the expression for the polarization found earlier (V. B. Tsaregradskiy, Izv. vyssh. uch. zav. - Radiofizika, 6, 275, 1963), and on equations for stationary amplitudes and phases (Idem. Ibid. 8, 504, 1965). The amplitude and frequency characteristics of the maser are derived, and the existence of two self-oscillatory regimes with different frequencies is demonstrated. The solution found

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UDC: 621.378.33

L 6303-66

ACC NR: AP5026707

shows that all the phenomena are covered by the theory formulated earlier; the only difference pertains to the amplitude-frequency characteristics, but even in this case it does not exceed 20 to 25%. Orig. art. has: 2 figures and 9 formulas.

SUB CODE: EC/ SUBM DATE: 22Mar65/ ORIG REF: 005/ OTH REF: 000

Card 2/2

RDS.

ACC NR: AP7001215

SOURCE CODE: UR/0141/66/009/006/1134/1141

AUTHOR: Tsaregradskiy, V. B.

ORG: Gor'kiy State University (Gor'kovskiy gosudarstvennyy universitet)

TITLE: Some applications of the generalized Kallen-Velton(?) theorem to the calculation of fluctuation characteristics of quantum devices

SOURCE: IVUZ. Radiofizika, v. 9, no. 6, 1966, 1134-1141

TOPIC TAGS: quantum device, quantum amplifier, quantum generator

ABSTRACT: The generalized Kallen-Velton theorem is used for evaluating the fluctuation in quantum amplifiers and generators. A formula for the spectrum of power of the beam noise (spontaneous radiation) is derived. This permits calculating the spectral energy of noise in the maser circuit; the result coincides with that of a rigorous analysis of a quantum-mechanics system of equations.

Card 1/2

UDC: 621.378.001.24

ACC NR: AP7001215

This proves the applicability of the K-V theorem to calculating noise in a quantum generator. Finally, the maximum width of the spectral line (due to spontaneous radiation) is evaluated. Comparison with some published results of other Soviet researchers proves that: (a) the simplifying assumptions made by the author in his deduction of the K-V formula (IVUZ. Radiofizika, 4, 508, 1961) were valid and (b) all methods of evaluation of quantum fluctuation result in approximately the same values of the spectral-line width. Orig. art. has: 44 formulas.

SUB CODE: 20 / SUBM DATE: 18Feb66 / ORIG REF: 010 / OTH REF: 001

Card 2/2

TSAREGRADSKIY, V.B.

Interaction between a molecular beam and the electromagnetic field of a resonator. Part 3: Stability of the oscillations of a molecular generator with an inhomogeneous field. Izv. vys. ucheb. zav.; radiofiz. 8 no.4:688-699 1965.

(MIRA 18:9)

1. Gor'kovskiy gosudarstvennyy universitet.

TSAREGRADSKIY, V.B.

Theory of fluctuations of a molecular generator. Izv. vys. ucheb. zav.; radiofiz. 7 no.6:1075-1089 '64.

(MIRA 18:3)

1. Gor'kovskiy gosudarstvennyy universitet imeni Lobachevskogo.

TSAREGRADSKIY, Ye.K.

Provincial conference of the Scientific and Technical Society
of the Paper and Woodworking Industry. Bur. 1 der. prom. no.3:
48-4, JI-S '65. (MIRA 18:9)

TSAREGRADSKIY, Ye.K.

Technology of combining the processes of veneering and finishing
particle boards. Bum. 1 der. prom. no.2:42-48 Ap-Je '65.
(MIRA 18:6)

TSAREGRADSKIY, Yuriy Aleksandrovich, burovoy master; MIKHEYEV,
N.I., red.; DURASOVA, V.M., tekhn. red.

[Rapid drilling of deep wells] Skorostnaya provodka glubokoi skvazhiny. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1962. 19 p. (MIRA 17:1)

1. Master pervoy kontory bureniya tresta "Pervomayburneft", Kuybyshevskaya oblast' (for TSaregradskiy).

KOLESNIKOV, Yu.A., insh.; KHARCHENKO, R.O.; TSAREGRADSKIY, Ye.K.

Lacquers made from birch tar for furniture finishing. Der. prom.
9 no.4:15-16 Ap '60. (MIRA 13:9)

1. TSentral'noye mebel'no-konstruktorskoye byuro Ukrpromsoвета.
(Lacquer and lacquering)

KHARCHENKO, R.I.; TSAREGRADSKIY, Ye.K.

Improving the production of birchbark tar. Gidroliz i lesokhim.
prom. 13 no.2:12-13 '60. (MIRA 13:6)

1. TSentral'noye mebel'noye konstruktorskoye byuro Ukrpromsoвета.
(Wood tar) (Birch)

KHARCHENKO, R.I., inzh.; TSAREGRADSKIY, Ye.X., inzh.

Birch tar as a substitute for shellac. Der.prom. 8 no.3:22 Mr '59.
(MIRA 12:4)

(Birch)

(Wood tar)

KIRILLOV, V.S., dotsent; ~~TSARENKO, A.~~, veterinarnyy vrach.

Milk therapy for cows in parturient paresis and mechanism of its
function. Veterinariia 30 no.12:36-39 D '53. (MLRA 6:11)

1. Moskovskiy khimiko-tehnologicheskii institut myasnoy promy-
shlennosti.

TSAPENKO, A. (Veterinarian, Moscow Chemo-Technological Institute of Meat Industry).
Milk therapy in birth paresis and the mechanism of its action.

So: Veterinariya; 30; 12; December 1963; Incl.
TABCON

NICHKOV, I.P.; RASPOPIN, S.P.; TSARENKO, A.F.

State of zinc in fused chlorides. Izv. vys. ucheb. zav.; tsvet. met.
5 no.5:89-92 '62. (MIRA 15:10)

1. Ural'skiy politekhnicheskiy institut.
(Zinc—Electric properties) (Fused salts)

NICHKOV, I.F.; RASPOPIN, S.P.; TSAKHENKO, A.P.

Uranium displacement by zinc from chloride melts. Atom. energ. 15
no.4:336-337 O '63. (MIRA 16:10)

NICHKOV, I.F.; RASPOPIN, S.P.; TSARENKO, A.F.

State of zinc in fused chlorides. Izv. vys. ucheb. zap.; tsvet. met.
5 no.5:89-92 '62. (MIRA 15:10₀)

1. Ural'skiy politekhnicheskiy institut.
(Zinc—Electric properties) (Fused salts)

7-14-1957
KRASIL'NIKOV, Petr Kus'mich; MASLOV, Roman Platonovich; TSARENKO, A.P.,
redaktor; BOBROVA, Ye.M. tekhnicheskiy redaktor

[Organization of shipper's special destination trains with
separate railroad car units; the work practice of the Uzlovaya
section of the Moscow-Kursk-Donbass line] Organizatsiia
otpravitel'skikh marshrutov iz razroznennogo vagonopotoka;
opyt raboty Uzlovskogo otdeleniia Moskovsko-Kursko-Donbasnoi
dorogi. Moskva, Gos. transp. zhel-dor. izd-vo, 1957.
23 p. (MLRA 10:4)

(Railroads--Making up trains)

POKAVKIN, Vladimir Alekseyevich; POPSHTEY, Anatoliy Vasil'yevich;
KHAIT, Etel' Isaakovna; TSARENKO, A.P., redaktor; BOBROVA,
Ye.N., tekhnicheskii redaktor.

[Putting through local and district freight by through trains]
Prodvizhenie mestnogo i uchastkovogo gruzha transitnymi poezdami.
Moskva, Gos.transp.zhel-dor.izd-vo, 1957. 41 p.

(MLRA 10:6)

(Railroads--Freight)

POVOROZHENKO, Vladimir Vasil'yevich, doktor tekhn.nauk, prof.; PETRISHIN, Lev Leont'yevich, dotsent; STEFANOV, Nikolay Yakovlevich, dotsent; BOROVOY, Natan Yefimovich, dotsent; GALATCHENKO, Nikolay Prokof'yevich, dotsent; TSARENKO, A.P., inzhener, red.; BOBROVA, Ye.N., tekhn.red.

[Organization of traffic in railroad transportation] Organizatsiia dvizheniia na sheleznodorozhnom transporte. Pod obshchei red.

V.V.Povorozhenko. Moskva, Gos.transp.zhel-dor.izd-vo, 1957. 362 p.

(MIRA 10:12)

(Railroads--Traffic)

GRINEVICH, Georgiy Petrovich, prof, doktor tekhn.nauk; TSARENKO, A.P., red.;
VERINA, G.P., tekhn.red.

[Warehouses and the mechanization of loading and unloading operations
in railroad transportation] Sklady i mekhanizatsiia pogruzochno-
razgruzochnykh rabot na zheleznodorozhnom transporte. Izd. 3-e,
ispr. i dop. Moskva, Gos.transp.zhel-dor. izd-vo, 1957. 471 p.
(Loading and unloading) (MIRA 11:2)

1-277-1110, 11-1
BADYUL, Boris Konstantinovich; LYASHENKO, Yakov Timofeyevich; TSARENKO, A.P.,
red.; BOBROVA, Ye.N., tekhn. red.

[Increasing static and dynamic loads of cars; practices of the
Dnepropetrovsk station of the Stalin Railroad] Povyshenie
staticheskoi i dinamicheskoi nagruzki vagonov; opyt stantsii
Dnepropetrovsk Stalinskoi dorogi. Moskva, Gos. transp. zhel-
dor. izd-vo, 1958. 19 p. (MIRA 11:7)
(Dnepropetrovsk--Railroads--Cars)

AGRANAT, Pavel Abramovich,; ZOZOVSKIY, Abram L'vovich,; TSARENKO, A.P., red.;
VERINA, G.P., tekhn. red.

[Recent developments in the operation of stations and spur lines;
experience of the Vinnitsa Economic Council and the Southwestern
Railroad] Novoe v rabotestantsii i pod'ezdnykh putei; opyt
Vinnitskogo sovmarkhoza i Iugo-Zapadnoi dorogi. Moskva, Gos.
transp. zhel-dor. izd-vo, 1958. 19 p. (MIRA 11:11)
(Railroads--Management)

BUKANOV, Mikhail Aleksandrovich,; TSARENKO, A.P., red.; VERINA, G.P., tekhn. red.

[Switchman's manual] Pamiatka strolochniku. Moskva, Gos. transp.
zhei-dor. izd-vo, 1958. 46 p. (MIRA 11:12)
(Railroads--Switchin--Handbooks, manuals, etc.)

KONSTANTINOV, A.N., SUKHOTSKIY, M.L., SUKACHEV, V.V., KAMYSHANOV, G.I.,
TSARENKO, A.P., red.; KHITROV, P.A., tekhn.red.

[Advanced work methods for passenger service personnel] Peredovye
metody truda passazhirskikh rabotnikov. Moskva, Gos.transp. zhel-dor.
izd-vo, 1958. 91 p. (MIRA 11:7)

(Railroads--Employees)

(Railroads--Passenger traffic)

7 SA RI 4116, A.11
KIR'YANENKO, Sergey Grigor'yevich; TSARENKO, A.P., inzh.red.; BOBROVA, Ye.N.,
tekhn.red.

[Organization of work on narrow-gauge railroads] Organizatsiia raboty
zheleznykh dorog uzkoj kolei. Gos. transp.zhel-dor. izd-vo, 1958,
159 p. (MIRA 11:5)
(Railroads, Narrow-gauge)

SMEKHOV, Anatoliy Alekseyevich, kand. tekhn. nauk; TSARENKO, A.P., red.;
BOBROVA, Ye.N., tekhn. red.

[Railroad freight yards and warehouses in foreign countries]
Gruzovye dvory i sklady zheleznodorozhnykh stantsii za rubezhom.
Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 173 p. (MIRA 11:7)
(Warehouses) (Railroads--Yards)

TS AIR TRANSPORT
BARTENEV, Prokofiy Vasil'yevich, prof., doktor tekhn. nauk; PARFENOV, Viktor Prokhorovich, dots., kand. tekhn. nauk; PODKALINER, S.N., dots., kand. tekhn. nauk; LABAZIN, P.S., dots.; LYAKHNITSKIY, V.Ye., prof., doktor tekhn. nauk, zasluzhenyy deyatel' nauki i tekhniki, red.; SOLOV'YEV, A.F., inzh., red.; TYUMENOV, N.A., inzh., red.; NOVIKOV, A.A., glavnyy marshal aviatsii, red.; TEPLITSKIY, A.V., glavnyy inzh., red.; TSARENKO, A.P., red.; KHITROV, P.A., tekhn. red.

[Water, road, air, and industrial transportation] Vodnyi, avtodorozhnyi, vozdushnyi i promyshlennyy transport. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 303 p. (MIRA 11:10)

1. Leningradskoye otdeleniye instituta proyektirovaniya promyshlennogo transporta (for Teplitskiy).
(Transportation)

BOGDANOV, Igor' Aleksandrovich; TSARENKO, A.P., inzh., red.; MEDVEDEVA,
M.A., tekhn.red.

[Cooperation practices between railroad sections and Economic
Councils] Opyt sodruzhestva otdelenii dorog i sovmarkhozov.
Moskva, Gos.transp.zhel-dor.izd-vo, 1959. 41 p. (MIRA 13:1)
(Railroads---Management)

SHEKHTMAN, Aron Isaakovich; ERLIKH, Moisey Davidovich; PROK, Boris
Mikheylovich; TSARENKO, A.P., red.; KHITROV, P.A., tekhn.red.

[Promoting the efficiency of freight transportation; from the
practice of economic councils and railroads] Opyt ratsionali-
zatsii perevozok gruzov; iz praktiki sovnarkhozov i zheleznykh
dorog. Moskva, Gos.transp.zhel-dor.isd-vo, 1959. 55 p.

(MIRA 12:7)

(Freight and freightage)

MAKAROV, Anatoliy Matveyevich; TSARENKO, A.P., red.; BOBROVA, Ye.N., tekhn.red.

[Intensified loading of timber into railroad cars] Uplotnennaya
zagrushka vagonov lesomaterialami. Moskva, Gos.transp.zhel-dor.
izd-vo, 1959. 58 p. (MIRA 12:6)
(Loading and unloading) (Lumber--Transportation)

NEKRUTMAN, Semen Veniaminovich; OSADCHUK, Grigoriy Ivanovich; SKRIPKIN, Viktor Vasil'yevich; TSARENKO, A.P., red.; BOBROVA, Ye.N., tekhn.red.

[Experience in transporting perishable freight; practices of the depot of refrigerated trains in the Moscow suburban station]
Opyt perevozki skroportlashchikhsia gruzov; iz praktiki depo refrizheratornykh poezdov stantsii Podmoskovnaia. Moskva, Gos. transp.shel.-dor.isd-vo, 1959. 96 p. (MIRA 12:6)
(Railroads--Freight)

SAMSONOV, Aleksey Vasil'yevich; LOGINOV, Nikolay Grigor'yevich; TSARENKO,
A.P., red.; BOBROVA, Ye.N., tekhn.red.

[Labor protection and safety measures in railroad traffic]
Okhrana truda i tekhnika bezopasnosti v khoziaistve dvizhenia zhelez-
nykh dorog. Moskva, Gos.transp.zhel-dor.izd-vo, 1959. 190 p.
(Railroads--Safety measures) (MIRA 12:4)

AKIMOV, M.I.; VOLKOV, S.P.; KONOVALOVA, N.A.; OSINOVSKAYA, R.I.; PLISKO, Yu.Yu.; SEVEROV, M.N.; STEPANOV, L.A.; SHCHUKIN, V.Ya.; VORONICHEV, M.P., red.; TSARENKO, A.P., red.; VERINA, G.P., tekhn.red.

[International railroad transportation] Mezhdunarodnye zheleznodorozhnye soobshcheniya. Pod red. M.P.Voronicheva. Moskva, Gos. transp.zhel-dor.izd-vo, 1959. 242 p. (MIRA 13:2)
(Railroads)

AVETIKYAN, Arshavir Arshavirovich; PODKOPAYEV, Ivan Andreyevich;
TSARENKO, A.P., red.; MEDVEDEVA, M.A., tekhn.red.

[Mechanization and automatization of car handling operations]
Opyt mekhanizatsii i avtomatizatsii pererabotki vagonov. Moskva,
Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshchenia,
1960. 23 p. (MIRA 13:9)
(Railroads--Traffic) (Automatic control)

LEBEDEVA, Tat'yana Petrovna; UMANSKIY, Grigoriy Markovich; TSARENKO,
A.P., red.; KHITROVA, N.A., tekhn.red.

[Television at railroad stations] Televidenie na zheleznodorozhnykh stantsiyakh. Moskva, Gos.transp.zhel-dor.izd-vo.
1960. 39 p. (MIRA 13:3)
(Television) (Railroads—Electronic equipment)

BEHLYAND, Aleksandr Usherovich, inzh.; TSARENKO, A.P., inzh., red.;
KHITROV, P.A., tekhn.red.

[Switchman's manual] Rukovodstvo strolochniku. Izd.3. Moskva,
Vses.izdatel'sko-poligr.ob"edinenie M-va putai soobshcheniia.
1960. 254 p. (MIRA 13:5)
(Railroads---Switches)

L 2*126-66 EWT(m)/EWP(1) IJP(c)

ACC NR: AP6001565

SOURCE CODE: UR/0120/65/000/006/0023/0026

AUTHOR: Issinskiy, I. B.; Kazanskiy, G. S.; Mikhaylov, A. I.; Myznikov, K. P.;
Omel'chenko, B. D.; Tsarenkov, A. P.

ORG: Joint Nuclear Research Institute (Ob'yedinennyy institut yadernykh issledovaniy)

TITLE: Programing the operation of the OIYaI proton synchrotron for physical experiments

SOURCE: Pribery i tekhnika eksperimenta, no. 6, 1965, 23-26

TOPIC TAGS: synchrotron, proton beam, computer programming

ABSTRACT: Two types of proton-synchrotron operation are usually required for physical experiments at OIYaI: (1) Short (50—500 μ sec) bursts of particles for bubble-chambers and (2) longer (up to 200 msec) pulses for counters. A programing system was developed which consists of a 7-channel operation-sequence unit, a command unit, a target-control unit, field sensors, a supply-control unit, and function manipulators. Several methods are envisaged for slow and fast application of the beam to various targets. Only block diagrams and short explanations are presented. Orig. art. has: 4 figures.

SUB CODE: 18, 09 / SUBM DATE: 20Oct64 / ORIG REF: 006

Card 1/1

UDC: 621.384.66

I. 00-42-67 INT(m) IJF(c)
ACC NR AP0035869

SOURCE CODE: UR/0413/66/000/020/0087/0087

INVENTOR: Kazanskiy, G. S.; Tsarenkov, A. P.

ORG: none

TITLE: A method of dynamically controlling parameters of an accelerated particle beam in the acceleration stage. Class 21, No. 187180. [announced by the Joint Institute of Nuclear Research (Ob'yedinennyi institut yadernykh issledovaniy)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 87

TOPIC TAGS: particle acceleration, particle accelerator, plasmoid acceleration, particle beam

ABSTRACT: An Author Certificate has been issued for a method of dynamically controlling the parameters of an accelerated particle beam during the acceleration cycle by using inductive electrodes. To continuously observe both the phase size of the accelerated charged particle bunch and the degree of energy homogeneity of the beam of charged particles trapped under synchrotron conditions, signals from transducers are passed through a system of slotted-type wideband amplifiers tuned to a voltage which approaches the pulse base. The pulses reflect the phase size and keep the pulse amplitude constant through an input unit containing an automatically controlled wideband amplifier which restores pulse amplitude when the intensity is varied.

SUB CODE: ^{20/}62/ SUBM DATE: 26Apr63/ ATD PRESS: 5105

Card 1/1

UDC: 621.384.66

DOLGOV, K.A.; TSARENKO, I.M.

Obtaining straw cellulose for chemical processing. Dum. 1
dar. prom. no.4:48-50 O-D '65.

(MIRA 18.12)

TSARENKO, N.Ya.; GEORGIYEVSKIY, V.P.; SHRAYBER, M.S.

Quantitative determination of the sum of alkaloids in the roots
of Rauwolfia serpentina. Apt. delo 14 no.5:49-51 S-O '65.

(MIRA 18:11)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut.

L 2279-66 EWT(m)/EPA(w)-2/EWA(m)-2 I/P(c) DM
 ACCESSION NR: AP5016923

UR/0089/65/018/006/0555/0559
 621,384.611

AUTHOR: Kazanskiy, G. S.; Mikhaylov, A. I.; Rubin, N. B.; Tsarenkov, A. P.

TITLE: Phase bunching of a beam of charged particles during capture in the acceleration process in the OIYaI proton synchrotron

SOURCE: Atomnaya energiya, v. 18, no. 6, 1965, 555-559

TOPIC TAGS: particle acceleration, bev accelerator, cyclic accelerator, proton accelerator, proton beam

ABSTRACT: A method for increasing the capture by turning on beforehand a high-frequency accelerating field is proposed. The frequency of the accelerating field is varied to match deflection of the orbit in the "quasi-betatron" mode. The capture efficiency is thus increased by bunching the particles in an azimuthal direction. This bunching consists of drawing into the capture process some of the particles which under normal conditions would be outside the stability region. The application of the high-frequency field prior to the injection of the particles produces a phase bunching effect. The efficiency of the phase bunching depends on the width of the energy spectrum and on the angular spread of the injected beam. This phase bunching mode is relatively critical to the tuning. A frequency deviation by

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L 2279-66

ACCESSION NR: AP5016923

10
0.3% offsets any gain that can be obtained from the capture. Calculation of the bunching effect are presented, and it is concluded that the results can be employed in accelerators designed for long-duration and many-turn injection. "The authors thank A. B. Kuznetsov for a useful discussion and advice, and also G. A. Bokov, G. P. Puchkov, and S. N. Yurov of the radio division of LVE OIYAI (Laboratory of High Energy, Joint Institute of Nuclear Research) for help with the investigations of the accelerator mode." Orig. art. has: 6 figures and 6 formulas.

ASSOCIATION: none

SUBMITTED: 24 Jun 64

ENCL: 00

SUB CODE: NP

NR REF SOV: 003

OTHER: 000

Card 2/2

DP

L 1232-66 ENT(m)/EPA(w)-2/EWA(m)-2 IJP(c) GS

ACCESSION NR: AT5007370

S/0000/64/000/000/0970/0975

25
24
E+1

AUTHOR: Kazanskiy, G. S.; Kuznetsov, A. B.; Mikhaylov, A. I.; Tsarenkov, A. P.;
Chekhlov, K. V.; Rubin, N. B.

TITLE: Certain special features governing the adjustment of the acceleration regime on the OIYaI 10-GeV synchrophasotron *M*

SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy. Moscow, Atomizdat, 1964, 975-975

TOPIC TAGS: high energy accelerator, proton accelerator, linear accelerator

ABSTRACT: The oscillogram form of the signals recorded by inductive electrodes in the quasi-betatron regime is due to the subsequent entrapment of the particles into acceleration. The signals are proportional to the variation in the density (e. g. of the order of $2.5 \cdot 10^{10}$ to $5.2 \cdot 10^{10}$ protons per pulse) of the particles in the quasi-betatron state in the case of multi-rotation injection at the azimuth of the "vertical" induction electrodes (Kazanskiy, G. S., et al. *Atomnaya energiya* 14, 153 (1963)). The oscillograms also indicate the state corresponding to particle storage in the accelerator chamber. Measurements show that a small group of particles, comprising about 0.5% ($5 \cdot 10^9$ protons per pulse) of the total number of particles.

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L 1232-66

ACCESSION NR: AT5007970

icles injected, takes part in the formation of the signal. The frequencies in the central part of the signal correspond to the frequency of revolution or are multiples of it. The appearance of such frequencies can explain the presence of the charge front during input of the particles into the accelerator chamber (or the formation of the drop in density at the moment of intensive losses at the beginning of injection), and also the amplitudinal nonequilibrium of the injection current from the linear accelerator, if there occur here azimuthal inhomogeneities whose extent is less than the perimeter of the equilibrium orbit. The connection between the form of the high-frequency signal under consideration and the subsequent entrapment of the particles into the synchrotron state is characteristic. If the oscillations close to the "rear" signal front formed by the particles with amplitudes of betatron radial oscillations are damped, then the effectiveness of entrapment decreases, and in the absence of such damping the effectiveness is greater, as shown by the oscillograms. In the case of the "differential" method of signal recording with induction electrodes, signals are observed whose form can be modified from sinusoidal to a series of discrete pulse-formed signals. In most cases (excluding those where the values n are resonant) the general picture represents the result of superposition of this and another group of signals, as seen on os-

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L 4232-66

ACCESSION NR: AT5007970

cillograms. The present report discusses the following pertinent topics: quasi-betatron state; synchrotron state; system of high-frequency accelerator supply; programming and adjustment of regimes suitable for physical experiments. The authors show that, by combining the various methods of beam output against a target and applying one or another method of selection, one can utilize intelligently the intensity in the accelerator cycle, thus ensuring a combination of different physical experiments. Orig. art. has: 6 figures, 6 formulas.

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy, Dubna (Joint Institute of Nuclear Research)

SUBMITTED: 26May64

ENCL: 00

SUB CODE: NP

NO REF SOV: 004

OTHER: 000

Def

Card 3/3

Tsarenko, Anatoliy Petrovich

Poyezd otpravlyayetsya v put'. Moskva Tranzheldorizdat, 1962.

141 (1) p. illus., diags.

Bibliography: p. (142)

TSARENKO, Anatoliy Petrovich

Poyezd otpravlyayetsya v put'. Moskva, Tranzheldorizdat, 1962
141 (I) p. Illus., Diags. Bibliography: p. (142)

AKSENOV, Ivan Yakovlevich; TSARENKO, A.P., inzh., red.; VERINA,
G.P., tekhn. red.

[Brief handbook of the indices of railroad operations]
Kratkii spravochnik pokazatelei ekspluatatsionnoi raboty
zheleznikh dorog. Moskva, Transzhelizdat, 1954. 178 p.
(MIRA 16:7)

(Railroads--Management)

AKSENOV, Ivan Yakovlevich; SUYAZOV, Ivan Grigor'yevich; KHATSKHELEVICH, M.N.,
redaktor; TSARENKO, A.P., redaktor; VERINA, G.P., tekhnicheskii
redaktor

[A manual for the study of the principles of the technical operation
of Soviet railroads] Posobie dlia izucheniia pravil tekhnicheskoi
ekspluatatsii zheleznykh dorog Soiuza SSR. Izd. 2-oe, perer. i dop.
Moskva, Gos. transp.zhel-dor. izd-vo, 1956. 482 p. (MLRA 10:1)
(Railroads--Management)

ANTONYUK, I.D., inzhener; ORLOV, V.G.; SAMSONOV, A.V.; TSARENKO, A.P.,
redaktor; KHITROV, P.A., tekhnicheskiiy redaktor

[Station master's manual] Posobie nachal'niku stantsii. Moskva,
Gos.transp.zhel-dor. izd-vo, 1957. 406 p. (MLBA 10:9)
(Railroads--Stations)

SMIRNOV, Petr Alekseyevich; TSARENKO, A.P., red.; MEDVEDEVA, M.A.,
tekhn.red.

[Guide on safety engineering for the switchman] Pamiatka po
tekhnike bezopasnosti strelotchniku. Izd.4, perer. Moskva,
Vses.izdatel'sko-poligr.ob"edineni^e M-va putei soobshcheni^a,
1960. 45 p. (MIRA 13:11)
(Switchmen) (Railroads--Safety measures)

NOV, Aleksey Vasil'yevich; TSARENKO, A.P.; red.; MEDVEDEVA, M.A.,
tekhn.red.
[Conductor's safety manual] Pamiatka po tekhnike bezopasnosti
konduktoru. Izd.4. Moskva, Vses.izdatel'sko-poligr.ob'edinenie
M-va putei soobshchenia, 1960. 56 p.
(Railroad conductors)
(MIRA 13:11)
(Railroads--Safety measures)

TSARENKO, A.P.; BOBROVA, Ye.N., tekhn.red.

[Advanced work methods for railroad station personnel] *Peredovye metody truda na vokzalakh. Moskva, Vses.izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1960. 66 p.*

(Railroads--Stations)

(MIRA 13:11)

FEL'DMAN, E.D.; MEZHOVA, R.V.; SHUL'KO, V.P.; TSARENKO, A.P., red.;
BOBROVA, Ye.N., tekhn.red.

[Problems in the standardization of weight norms and routing of
freight shipments] Voprosy unifikatsii vsesovykh norm i
marshrutizatsii gruzovykh perevozok. Moskva, Vses. izd-ko poligr.
ob"edineniye m-va putei soob., 1960. 175 p. (Moscow. Vsesoiuznyi
nauchno-issledovatel'skii institut zheleznodorozhnogo transporta.
Trudy, no.186) (MIRA 13:10)

(Railroads--Freight)

SHATSKAYA, Eleonora Petrovna; KHUDYAKOVSKIY, Yu.K., inzh., retsenzent;
TSARENKO, A.P., inzh., red.; MEDVEDEVA, M.A., tekhn. red.

[Practices of the over-all mechanization of the servicing of
refrigerator cars] Opyt kompleksnoi mekhanizatsii ekipirovki
vagonov-lednikov. Moskva, Vses. izdatel'sko-poligr. ob'edinenie
M-va putei soobshchenia, 1961. 29 p. (MIRA 14:6)
(Refrigerator cars)

SHUTOV, A.I.; OLESHKO, G.I.; ROMANES, G.U., inzh., retsenzent; PERSHIN, B.F., inzh., retsenzent; TSARENKO, A.P., inzh., red.; USENKO, L.A., tekhn. red.

[Improving the technical operation of the Osnova Railroad Station]
Sovershenstvovanie tekhnologii raboty stantsii Osnova. Moskva,
Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshchenia,
1961. 34 p. (MIRA 14:7)
(Osnova (Kharkov Province)--Railroads--Stations)

TSARENKO, A.P., inzh., red.; USENKO, L.A., tekhn. red.

[Creative work of railroad stations employees] Tvorcheskii trud
rabotnikov vokzalov. Moskva, Vses. izdatel'sko-poligr. ob"edina-
nie M-va putei soobshcheniia, 1961. 41 p. (MIRA 14:12)
(Railroads—Employees) (Railroads—Station service;

RIDEL', Eduard Ivanovich; SHTEFKO, Igor' Vladimirovich; YEFIMOV, G.P., retsen-
zent; TSARENKO, A.P., red.; MEDVEDEVA, M.A., tekhn. red.

[Transportation of palletized loads] Opyt perevozok грузов v iashchich-
nykh poddonakh. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va
putei soobshcheniia, 1961. 47 p.
(Unitized cargo system) (MIRA 14:7)

GUMENYUK, Nikolay Denisovich; ZOSIMOV, Ye.A., retsenzents; ORLOV, V.M.,
inzh., retsenzents; TSARENKO, A.P., inzh., red.; KHLITROVA, N.A.,
tekhn. red.

[Work organization in ticket offices] Organizatsiia raboty bilet-
nykh kass. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va
putei soobshcheniia, 1961. 67 p. (MIRA 14:10)

1. Zaveduyushchiy Byuro zakazov na vokzalestantsii Moskva-Pass.-
Kurskaya (for Gumenyuk).
(Railroads--Tickets)

AL'TERMAN, Semen L'vovich; SMETANIN, Aleksandr Ivanovich; MEL'NIK, A.L.,
kand.tekhn.nauk, retsenzent; SUKACHEV, V.V., inzh., retsenzent;
TSARENKO, A.P., inzh., red.; MEDVEDEVA, M.A., tekhn.red.

[Organizing work with local cars] Organizatsiia raboty s mestnymi
vagonami. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei
soobshcheniia, 1961. 174 p. (MIRA 14:6)
(Railroads—Management)
(Railroads—Freight)

KOROTKOV, Valentin Nikolayevich; YEFIMOV, G.P., kand. tekhn. nauk, retsen-
zent; TSARENKO, A.P., inzh., red.; KHITROVA, N.A., tekhn. red.

[Manual for the operator of a gantry crane] Posobie kranovshchiku
kozlovogo krana. Izd.2., ispr. i dop. Moskva, Vses. poligr. ob"edi-
nenie M-va putei soobshcheniia, 1961. 271 p. (MIRA 14:11)
(Cranes, derricks, etc.)

TSARENKO, Anatoliy Petrovich; AKSENOV, I.Ya., kand. tekhn. nauk,
retsenzent; BERNGARD, K.A., prof., doktor tekhn.nauk,
retsenzent; GITKOVICH, V.K., red.; USENKO, L.A., tekhn.
red.

[A train takes off]Poezd otpravliaetsia v put'. Moskva,
Transzheldorizdat, 1962. 141 p. (MIRA 15:10)
(Railroads)

MARINOV, Gersh Ayzikovich; NEKRUTMAN, Semen Veniaminovich; OSADCHUK, Grigoriy Ivanovich; MARTYNOV, M.S., inzh., retsenzent; TSARENKO, A.P., inzh., red.; MEDVEDEVA, M.A., tekhn. red.

[Operation of cars with mechanical refrigeration] Ekspluatatsiia vagonov s mashinnym okhlazhdeniem. Moskva, Transzheldorizdat, 1962. 163 p.

(MIRA 15:6)

(Refrigerator cars)

AKSENOV, Ivan Yakovlevich; BOGDANOV, I.A., inzh., retsenzent; TSARENKO, A.P., inzh., red.; USENKO, L.A., tekhn.red.

[Railroad operational indices] Pokazateli ekspluatatsionnoi raboty zheleznykh dorog; kratkii spravochnik. Izd.2., perer. i dop. Moskva, Vses.izdatel'sko-poligr.ob'edinenie M-va putei soobshchenia, 1962. 206 p. (MIRA 15:5)
(Railroads—Management)

BERLYAND, Aleksandr Usherovich; TSARENKO, A.P., inzh. red.; VASIL'YEVA,
N.N., tekhn.red.

[Handbook of the switchman] Rukovodstvo strelochniku. Izd.3.
Moskva, Transzheldorizdat, 1962. 258 p. (MIRA 15:11)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya.
(Railroads--Switches) (Railroads--~~Si~~gnaling)

SAVCHENKO, Ivan Yefimovich, kand. tekhn. nauk; ZEMBLINOV, Sergey
Vladimirovich, doktor tekhn. nauk; STRAKOVSKIY, Isaak
Izrailevich, kand. tekhn. nauk; TSARENKO, A.P., inzh., red.;
MEDVEDEVA, M.A., tekhn. rad.

[Railroad stations and junctions] Zheleznodorozhnye stantsii i
uzly. [By] I.E. Savchenko i dr. Moskva, Transzheldorizdat,
1962. 410 p. (MIRA 16:2)

(Railroads--Stations)

BORISOV, Georgiy Nikolayevich; RUSKIN, Serafim Dmitriyevich;
ZUBOV, I.V., inzh., retsenzent; TSARENKO, A.P., inzh.,
red.; USENKO, L.A., tekhn. red.

[Accelerated handling of the flow of local cars;
experience of the Moscow-Kursk Division of the Moscow
Railroad] Uskorenniyi propusk mestnogo vagonopotoka; opyt
Moskovsko-Kurskogo otdeleniya Moskovskoi dorogi. Mo-
skva, Transzheldorizdat, 1963. 29 p. (MIRA 16:5)
(Railroads--Management)

PERSHIN, Boris Filippovich; CHEKVASKIN, A.P., inzh., retsenzent;
TSARENKO, A.P., inzh., red.; DROZDOVA, M.D., tekhn. red.

[Operation of traffic-control systems]Ekspluatatsiia mar-
shrutno-kontrol'nykh ustroistv. Moskva, Transzheldorizdat,
1963. 55 p. (MIRA 16:3)
(Railroads--Signaling--Centralized traffic control)

GUBKOV, Vladimir Vladimirovich; MALAKHOV, Konstantin Nikolayevich;
DERIBAS, A.T., inzh., retsenzent; KATOLICHENKO, V.A., inzh.,
retsenzent; TSARENKO, A.P., inzh., red.; VOROTNIKOVA, L.F.,
tekh. red.

[Mechanization of loading and unloading operations on foreign
railroads] Mekhanizatsiya pogruzochno-razgruzochnykh rabot na
zarubezhnykh zheleznnykh dorogakh. Moskva, Transzheldorizdat,
1963. 227 p. (MIRA 16:4)

(Materials handling--Equipment and supplies)
(Automation) (Railroads--Freight)

TSARENKO, F.I.

Influence of reservoirs on the flow of rivers of the Ukraine.
Trudy UkrNIGMI no.51:59-65 '65. (MIRA 18:9)

TSARENKO, F.A., mekhanik rel'soukladchik..

How a track laying machine may be used. Put' i put. khoz. no.5:
27-28 My '57. (MLRA 10:6)

1. Putevaya dorozhnaya mashinnaya stantsiya No.2 Belorusskoy
dorogi.

(Railroads--Track)

TANANAYKO, M.M.; TSARENKO, G.F.

Extraction-photometric determination of titanium (IV) in the
presence of iron (III). Ukr.khim.zhur. 30 no.11:1213-1215 '64.

(MIRA 18:2)

1. Kiyevskiy gosudarstvennyy universitet im. T.G.Shevchenko.

TANANAYKO, M.M.; TSARENKO, G.F.

Solubility of compounds formed in the system titanium (IV) -
diantipyrilmethane - thiocyanate. Ukr.khim.zhur. 31 no.5:530-
533 '65. (MIRA 18:12)

1. Kiyevskiy gosudarstvennyy universitet imeni Shevchenko.
Submitted Oct. 10, 1963.

TSARENKO, I., inzh.

Development of creative initiative is a pledge of success. Avt.-
transp. 41 no.4:12-13 Ap '63. (MIRA 16:5)
(Rostov-on-Don--Transportation, Automotive)

MARKOV, Yu.N., inzh. (Sverdlovsk); TSARENKO, L.P., inzh. (Sverdlovsk)

Progressive mechanic and his crew. Put' i put. khoz. 4
no. 12:30-31 D '60. (MIRA 13:12)
(Railroads--Snow protection and removal)

137-58-4-6805

Translation from: Referativnyy zhurnal, Metallurgiya, 1958. Nr 4, p 70 (USSR)

AUTHORS: Bergel'son, L. P., Tsarenko, L. V.

TITLE: A Radioactive-isotope Study of the Process of Washing a Gold-bearing Solution by Means of Filtration, and the Formulation of Recommendations for Reduction of Losses of Dissolved Gold (Izucheniye protsessy otmivki zolotosoderzhashchego rastvora pri fil'tratsii s primeneniym radioaktivnykh izotopov i razrabotke rekomendatsiy po snizheniyu poter' rastvorennogo zolota)

PERIODICAL: Tr. n.-i. gornorazved. in-ta "Nigrizoloto", 1957, Nr 22, pp 158-159

ABSTRACT: Dissolved Au is practically completely washed out (up to 95% by $0.75-1 \text{ m}^3$ washing solution per ton of dry material, the cake thickness being 6-8 mm and the Au concentration $1-1.5 \text{ g/m}^3$ solution. A 5% impairment of the process of washing dissolved Au by filtering is observed when xanthogenate is added. "Nigrizoloto" found, under laboratory conditions, an optimal procedure for washing Au and developed a method of performing radio-isotope analysis. The laboratory data were confirmed with industrial pulp, and the result is that an optimum regime for the filtering and washing of dissolved Au has been established. G.S

Card 1/1

1. Gold--Processes 2. Radioactive isotopes--Applications

S/137/51/000/011/041/123
AO60/A101

AUTHORS: Klimenko, N. G., Tsarenko, L. V.

TITLE: Technical characteristics and the study of dispersed elements in the ore of one of the Southern Ural deposits

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 11, 1961, 9, abstract 11064 ("Tr. Tsentr. n.-i. gornorazved. in-ta", 1960, no. 39, 48 - 49)

TEXT: The main useful components besides Cu are primary sulfides. Of the dispersed elements the ones having an industrial value are Se and Te, mainly compounded with FeS_2 in the form of isomorphic admixtures. Their separation in independent concentrates is inexpedient because of their fine dispersion and low content. In order to improve the concentration schedule of Sibay ores, it is recommended to add cationite mark KY-1 (KU-1) in the crushing operation in order to ward off the activation of the ZnS, and also crushed cyanide in the proportion 1.5 kg/ton. Anionite mark ЭПД-10П (EPD-10P) may be used for the sorption of excess ions of cyanide. Cyanide in the proportion 50 g/ton is used in the lime medium for a better depression of the pyrite. It is recommended to use NH_4Cl in

Card 1/2

Technical characteristics and...

S/137/61/000/011/041/123
A060/A101

the metallurgical separation of the Cu and FeS_2 concentrates in order to increase the extraction of Se and Te.

A. Shmeleva

[Abstracter's note: Complete translation]

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Card 2/2

TSARENKO, M.Ya.; SHRAYBER, M.S.

Fluorometric method for quantitative determination of serpentine.
Farmatsev.zhur. 20 no.1:37-39 '65.

(MIRA 18:10)

1. Farmakoanaliticheskaya laboratoriya Khar'kovskogo nauchno-
issledovatel'skogo khimiko-farmatsevticheskogo instituta.

TSARENKO, M.Ya.; SHRAYDER, M.S.

Quantitative determination of reserpine in complex medicinal mixtures.
Farmatsev. zhur. 16 no.6:9-12 '61. (MIRA 15:5)

1. Khar'kovskiy nauchno-issledovatel'skiy khimio-farma tsevticheskiy
institut.

(RESERPINE) (COLORIMETRY)

TSARENKO, N.G. (Velikiye Luki).

Control of tags and of solutions for injections. Apt.delo 2 no.3:31 My-Je
'53.

(MLRA 6:6)

(Solutions (Pharmacy)) (Labels)

TSAPNKO, N. V.
Molecular Physics

Dissertation: "An Investigation of Heat Emission and Penetration During Motion of A Liquid in Narrow Channels of a Right-Angled Section." Cand Tech S 1, Kiev Polytechnic Inst, Kiev, 1963. (Referativnyi Zhurnal -- Fizika Moscow, Mar 54)

SO: 31M 513, 20 Sep 1964

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 3, p 75 (USSR) SOV/124-57-3-3166

AUTHOR: Tsarenko, N. V.

TITLE: On the Nature of the Heat Exchange in Curvilinear Ducts (O kharaktere teploobmena v krivolineynykh kanalakh)

PERIODICAL: Izv. Kiyevsk. politekhn. in-ta, 1955, Nr 18, pp 358-361

ABSTRACT: On the basis of experimental results on the heat exchange in straight and curved pipes and of a comparative analysis of the kinetic structure of a turbulent fluid flow inside a plane rectangular and square duct the author deduces that the heat exchange occurring under turbulent-flow conditions in the fluid in curvilinear ducts of rectangular section with an elevated ratio of the sides ($b/h > 8 + 9$) is described sufficiently accurately by the following equation derived for straight ducts:

$$N = 0.023 R^{0.8} P^{0.4}$$

Card 1/1 where N is the Nusselt number, R is the Reynolds number, and P is the Prandtl number.

L. V. Kozlov

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 85 (USSR) SOV/124-57-5-5637

AUTHOR: Tsarenko, N. V.

TITLE: An Investigation of the Heat Transfer in a Turbulent Flow of Liquid Through a Narrow Rectangular Conduit (Issledovaniye teplootdach pri turbulentnom techenii zhidkostey v uzkih kanalakh pryamougol'nogo secheniya)

PERIODICAL: Izv. Kiyevsk. politekhn. in-ta, 1956, Vol 17, pp 143-153

ABSTRACT: An account is given of the results of an investigation made of the transfer of heat from water undergoing cooling while flowing through a straight rectangular conduit. The Reynolds numbers of the investigated water flows varied within the limits 1×10^4 to 6×10^4 . The conduits' width/depth ratios ranged from 3:1 to 10:1, their length/width ratios from 70:1 to 200:1; the minimum conduit width was 1.8 mm. The experimental apparatus used is described, and the author discusses certain aspects of the experimental methods employed. The data yielded by the investigation, and the results of comparison thereof with the findings of other authors, are graphed and reduced to formulas. For determining the intensity of the heat-transfer

Card 1/2

SOV/124-57-5-5687

An Investigation of the Heat Transfer in a Turbulent Flow of Liquid (cont.)

process the author proposes the formula $N = 0.023 R^{0.8} P^{0.4}$, where N is the Nusselt number, R the Reynolds number, and P the Prandtl number. The determining dimension is the equivalent diameter $d = 4 f/u$, wherein f is the conduit's cross-sectional area and u is the wetted perimeter. The physical constants involved are referred to the mean temperature of the liquid. The influence of the Prandtl number was not investigated. It is noted that free convection does not affect the intensity of the heat-transfer process. No influence either was found to be exerted by that portion of the conduit in which the flow becomes stabilized. The data obtained are observed to agree well with results of investigations made previously relative to the transfer of heat to a flow of air. However, the author's endeavors to account for this agreement in terms of the dissimilar nature of the effect of the temperature on the respective behavior characteristics of true gases and droplet-form liquids are not very convincing.

A. A. Gukhman

Card 2/2

COUNTRY : China
 CATEGORY : H-2
 ABS. JOUR. : RZKhim., No. 1959, No. 36801
 AUTHOR : Tsurenko, N. V.
 INST. :
 TITLE : Dissipation of Heat During Visco-Gravitational Flow of Liquid in Rectangular Channels.
 ORIG. PUB. : Wu li hshueh pao, Acta phys. sinica, 1959, 15, No 5, 246-255
 ABSTRACT : Results are considered of experimental studies of heat dissipation from wall to cooling water in straight vertical and horizontal narrow channels of rectangular cross section, during laminar, viscogravitational flow. The influence of thermokinetic, hydrodynamic, and geometrical factors, on heat dissipation, is described. Criterion equations are presented, which can be used to determine the coefficient of heat dissipation in the calculation of heat-exchangers.
 From the author's summary.

CARD:

161

SHRAYBER, M.S.; TSAIENKO, N.Ya.

Exchange method for the determination of nitro-esters. Med. prom.
15 no.3:42-44 Mr '61. (MIRA 14:5)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut.

(NITRITES)

55220

29437
S/081/61/000/017/107/166
B101/3102

AUTHORS: Shrayber, M. S., Tsarenko, N. Ya.

TITLE: Volumetric method of determining nitroethers

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1961, 401, abstract
17/272 (Med. prom-st' SSSR, no. 3, 1961, 42 - 44)

TEXT: The determination is based on the reduction of the nitrogen of the nitroether to NH_3 by means of Devarda's alloy. NH_3 is collected in a receiver by means of 0.1 N H_2SO_4 . The nonreacting acid excess is titrated with 0.1 N NaOH. Tetranitropentaerythrite and hexanitromannite, new vasodilating agents, were quantitatively determined by this method.
[Abstracter's note: Complete translation.]

Card 1/1

TSARENKO, N.Ya.; ONICOV, Ya.Ye.; CHEVYCHOK, V.S.

Polarographic method of determining ajmaline. Report No. 1
Med prom. 17 no.9:38-40 5'63. (MIRA 1965)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsiya
Institut.

ACC NR:AR6019861

(N)

SOURCE CODE: UR/0398/66/000/001/V012/V012

AUTHOR: Tsarenko, P. M.

TITLE: Experience in the operation of the automatic remote control system for the R6DV148 engine

SOURCE: Ref. zh. Vodnyy transport, Abs. 1V76

REF SOURCE: Proizv.-tekhn. sb. Tekhn. upr. M-va rechn. flota RSFSR, no. 3 (47), 1965, 3-4

TOPIC TAGS: diesel engine, auxiliary ship, remote control system, system reliability, marine engine

ABSTRACT: Motor tugs of Project No. 758 are equipped with automatic remote control [DAU] systems for the R6DV-148 engines. Over a period of five navigation seasons of operating these ships the Omsk Ship Repair Yard has discovered a number of unreliable units in the DAU system. Included among such units are the MET-2/30 tachometer generator, which will not last longer than one or two seasons because of rapid wearing of bearings nos. 6017 and 6010. The MP-1 microswitches at the control stations, and the course cut-out switches, have unreliable mechanical drives, position settings at the control stations are not clear, and access to the adjustment devices is difficult. The power outputs of individual of the electric motors are

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UDC: 621.431.74-519.004.001.5

ACC NR: AR6019861

too low. Repairs and adjustments to the DAU system are made in the yard under wintertime conditions. 1 figure. [Translation of abstract]

SUB CODE: 13,21,09

Card 2/2

TSARENKO, P. P. Cand Agr Sci -- (diss) "~~The~~ ²Condition and means for the
development of ~~the~~ ^{the} raising of ducks and geese in Leningradskaya Oblast."
Len, 1958. 16 pp (Min of Agr USSR. Len Agr Inst), 150 copies (KL, 52-58, 105)

-193-

TSARENKO, P. P.

Tsarenko, P. P. and Mayarovskaya, L. A. "On the problem of surgical complications of Crimean hemorrhagic fever," *Trudy Krimsk. med. in-ta im. Stalina*, Vol. VII, 1949, p. 205-10

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949)

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AUTHORS: Krasovitskiy, B.M., Pirogova, I.N., Tsarenko, S.V.

TITLE: Vat Dyes Made From Pyrenic Acid

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pp 282-283 (USSR)

ABSTRACT: The vat dyes were prepared by the condensation of pyrenic acid with ortho-phenylene-diamine and 1,8-naphthylene-diamine. The separation of the dyes into cis- and trans-isomers is not possible, which shows their homogeneity. One dye is an orange powder soluble in concentrated sulfuric acid, pyridine and aniline, the other a dark-green powder soluble in the same media.
There are 2 non-Soviet references.

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